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Oct 6, 1977

DERWENT-ACC-NO: 1977-72604Y

DERWENT-WEEK: 197741

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TITLE: Biologically nisin-enriched milk powder prepn. - by fermentation of skim milk with *Streptococcus lactis*, for animal feedstuffs

PATENT-ASSIGNEE:

ASSIGNEE

CODE

INST PRZEM MLECZARS

MLECN

INST PRZEMYSLU MLEC

PRZEN

PRIORITY-DATA: 1976DE-2616390 (April 14, 1976)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 2616390 B	October 6, 1977		000	
FR 2348656 A	December 23, 1977		000	
SU 655282 A	March 30, 1979		000	

INT-CL (IPC): A23C 9/16; A23K 1/17; A61K 35/74; C12D 9/00

ABSTRACTED-PUB-NO: DE 2616390B

BASIC-ABSTRACT:

The prepn. of biologically nisin-enriched milk powder inoculating hot skim milk with 2-5% of a nisin-forming culture of *Streptococcus lactis* and fermenting for 18 hrs. with periodic neutralisation with 15-20% caustic soda and maintaining the pH between 6.0 and 6.8 and 28-33 degrees C.

The improvement comprises cooling the culture after fermentation to 10-14 degrees C using a heat exchanger with simultaneous stirring and finally concentrating to 14-25% dry solids content, spray drying (effluent air temp. 87-97 degrees C) and cooling the nisin-enriched milk powder obtd. before it leaves the cyclone to 18-20 degrees C with air with reduced moisture content using a pneumatic accelerator.

The prod. can be used in animal fodder and milk substitutes as an antibiotic. The milk powder has a nisin content of 20,000 units/g cf. 5000 units/g in milk powder obtd. by previous methods.

TITLE-TERMS: BIOLOGICAL NISIN ENRICH MILK POWDER PREPARATION FERMENTATION SKIM MILK *STREPTOCOCCUS LACTIS* ANIMAL FEEDSTUFF

DERWENT-CLASS: C03 D13 D16

CPI-CODES: C02-N; C04-B04K; C12-L09; D03-G02; D05-C02;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

V140 V143 V600 V901 V631 N130 M431 P001 P220 M720